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# PCT

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT 21301	FOR FURTHER ACTION	OR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/mon	nth/year) Priority date (day/month/year)				
PCT/US03/40139	05 December 2003 (05.12.2003)	11 December 2002 (11.12.2002)				
International Patent Classification (IPC)	or national classification and IPC					
IPC(7): C07D 401/04, 487/04; A61K 31/3	519; A61P 35/00 and US Cl.: 544/2	281; 514/259.3				
Applicant						
MERCK & CO. INC.						
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total of sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a	total of sheets.					
3. This report contains indica	tions relating to the following it	tems:				
I Basis of the repo	ort					
II Priority						
III Non-establishme	III Non-establishment of report with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of invention						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cited .						
VII Certain defects in the international application						
VIII Certain observations on the international application						
Date of submission of the demand	Date	of completion of this report				
22 June 2004 (22.06.2004)	24 Ap	pril 2005 (24.04.2005)				
Name and mailing address of the IPEA/U  Mail Stop PCT, Attn: IPBA/ US  Commissioner for Patents  P.O. Box 1450	Autho Thor	orized officer  Alexander Boll-Harres Bon  mas C. McKenzie, Ph.D.				
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		hone No. (703) 308-1235				
Form PCT/IPEA/409 (cover sheet)(July 19.	98)	•				



#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International app. on No.	
PCT/US03/40139	

I.	Basi	s of the report				
1.	With	regard to the elements of the international application:*				
	X	the international application as originally filed.				
	$\boxtimes$	the description:				
		pages 1-52 as originally filed				
		pages NONE filed with the demand				
		pages NONE, filed with the letter of				
	X	the claims:				
		pages 53-62, as originally filed				
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand				
		pages NONE, filed with the letter of				
		the drawings:				
		pages NONE, as originally filed				
		pages NONE, filed with the demand				
		pages NONE, filed with the letter of				
		the sequence listing part of the description:				
	<b></b>	pages NONE as originally filed				
		pages NONE, filed with the demand				
		pages NONE, filed with the letter of				
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the				
	lang	uage in which the international application was filed, unless otherwise indicated under this item.				
	11162	se elements were available or furnished to this Authority in the following language which is:				
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).				
	H	the language of publication of the international application (under Rule 48.3(b)).				
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).				
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:				
		contained in the international application in printed form.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form.				
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.				
4.		The amendments have resulted in the cancellation of:				
		the description, pages NONE				
		the claims, Nos. NONE				
		the drawings, sheets/fig NONE				
5						
J,	L	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in						
inis	this report as "originally filed" and are not amexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.					
·	DCT	(IPEA/409 (Box I) (Inly 1998)				



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Form PCT/IPEA/409 (Box V) (July 1998)

International apple on No. PCT/US03/40139

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. STATEMENT						
Novelty (N)	Claims	4-8 and 10-36	YES			
	Claims	1, 2, 3, and 9	NO			
Inventive Step (IS)	Claims	4-8 and 10-36	YES			
mvena ve etep (12)		1, 2, 3, and 9	NO			
Industrial Applicability (TA)	Claims	1 26	YES			
Industrial Applicability (IA)		NONE	123 NO			
compound of Example 1, lines 8-24, second column at R3 = NH2 = (C=O)aNRa2, a = 0, Ra = hydrogen, R4 =	nd with Regis = phenyl, and	ticipated by JP 40-002679 B4 (Shionogi & Co., Ltd.). The stry Number 1780-58-1 fits formula I with R1 = methyl, R R5 = methyl = (C=O)aObalkyl, a = b = 0.  being obvious over JP 40-002679 B4 (Shionogi & Co., L.	2 = ethyl,			
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### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 13 and 22 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 13 and 22 are indefinite for the following reason(s): It is unclear which diseases are related to angiogenesis or to protein kinases.

Claims 10-22 and 29-36 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claims 10-22 and 29-36 are not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because: there is no nexus between Applicants assays and clinical efficacy for the treatment of the clamed diseases.

Form PCT/IPEA/409 (Box VIII) (July 1998)